

# Radiated Power Vs. Time

- Sinusoidal auroral power curve results from the observing geometry
- Quasi-periodic shape of torus power curve results from intrinsic brightness variations
- The emitted power decreases by 25% in 45 days, from 2 TW to 1.5 TW.
- $P_{\text{Dusk}}/P_{\text{Dawn}}$  is variable, ranging from 0.74-2.29 with mean of 1.32 and standard deviation of 0.25
- Both aurora and torus can brighten rapidly
- Auroral brightening events often followed by torus brightening ~10-20 hours later. (DOY 280, 292, 295 and 307)